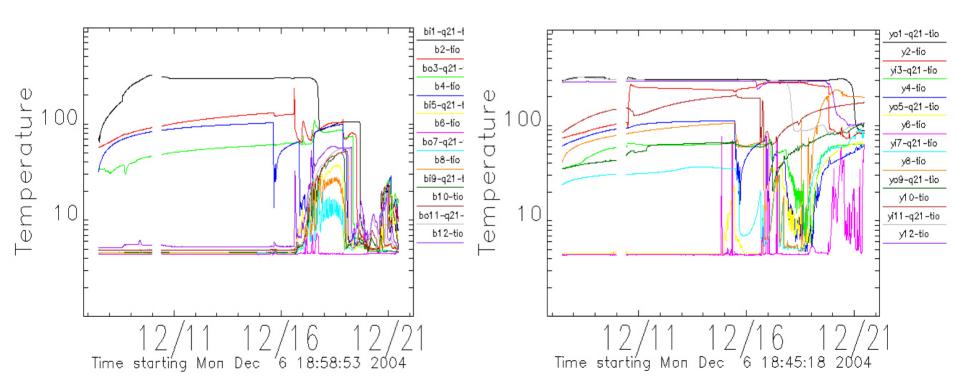


## Run-5 update

#### Cryo

Blue: 4K wave → ring at operating conditions tonight

Yellow: 80K wave in progress, expected time for yellow at operating conditions Sunday 26





### Beam in blue/yellow

#### **BLUE**

possible beam in blue Wednesday 22 night (50/50) or Thursday 23

Injectors: tandem/booster up, AGS coming up today

PS/magnets high current tests tomorrow daytime

Beam: re-establish <u>injection</u>, <u>instrumentation</u>, <u>RF</u>, <u>ramps</u> to store in blue, improve set-up → increase intensity

#### **YELLOW**

Ring cold december 26

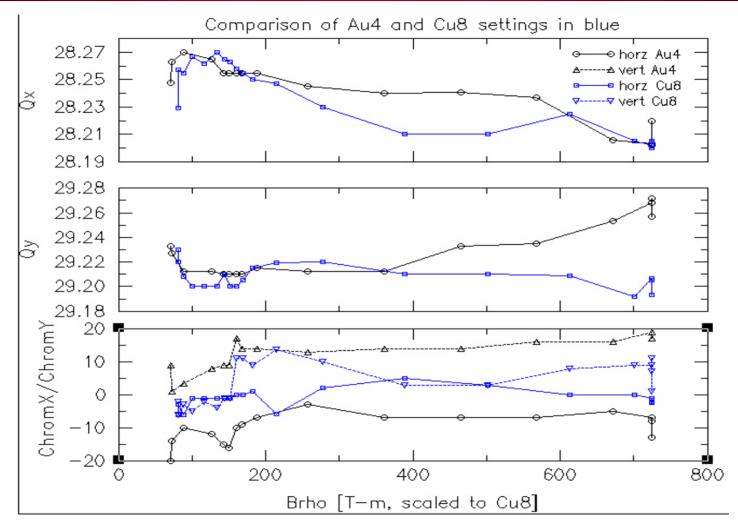
PS/magnets testing, high current tests, 2 shifts dec 26-27→beam earliest 26 or Monday 27

Beam: set-up injection, RF, instrumentation, ramps



## Ramp analysis – 1

(Todd)



Better tune and chromaticity predictions by model this year



### Initial prediction Cu8 yellow trims

(*) $Y(Cu8) = B(Cu8) + (Y(Au4) - B(Au4))$									
٠, ۲	Brho	B(Qx)			B(Chry)	Y(Qx)	Y(Qy)	Y(Chrx)	Y(Chry)
	81.1138	28.229	29.23	-6	-2	28.247	29.245	-8.4	1.3
	81.4531	28.257	29.22	-3	-6	28.275	29.235	-5.4	-2.9
	88.1242	28.255	29.208	-6	-3	28.273	29.221	-8	-2.5
	99.4246	28.267	29.2	-1	-5	28.273	29.213	-2.1	-4.9
	116.375	28.262	29.2	-1	-2	28.276	29.213	-0.8	-2.6
	133.801	28.27	29.2	-1	-4	28.286	29.214	2.1	-5.8
	144.396	28.265	29.21	-1	-1	28.287	29.225	5.2	-4.4
	151.223	28.263	29.2	-1	-1	28.285	29.215	6	-6
	160.875	28.258	29.2	0	11	28.280	29.215	6.8	5.5
	168.527	28.255	29.205	0	11	28.277	29.225	5	10
	182.064	28.25	29.215	1	9	28.275	29.223	7.4	7.3
	213.684	28.2469	29.2191	5.8	13.7	28.273	29.222	-0.7	12.8
	277.301	28.23	29.22	2	10	28.255	29.225	5	11
	389.128	28.21	29.21	5	3	28.229	29.217	12.3	4.3
	500.954	28.21	29.21	3	3	28.228	29.215	8.9	5.5
	612.781	28.225	29.209	0	8	28.241	29.223	1.1	13.0
	701	28.205	29.192	0	9	28.224	29.215	-0.6	14.9
	724.608	28.202	29.207	-1	9	28.211	29.250	-2	9.6
	724.608	28.205	29.193	-1.5	11	28.214	29.236	-2.5	11.6
	724.608	28.205	29.205	-2	7	28.214	29.248	-3	7.6
	724.608	28.2	29.207	-2.5	1	28.209	29.250	-3.5	1.6

## →Implemented in ramp Cu8



#### Miscellaneous notes

# 8:30 Run-5 meetings re-start tomorrow morning

- Widen-up the pool of physicists supporting RHIC operations motivation:
- □ Training for physicist shifts (→shortage for PP run)
- Support analysis
- (More effective teams for beam experiments later on)

.....the latest : the Cu28+ "beam"